1 1 1 1	Requ Not I No E	tere uire: Mas Expo	s Su stere sur	can work independently with no supervision pervision – can perform job completely with limited superd – requires instruction and close supervision e – no experience or knowledge in this area arentheses is the competency identification number used	
3	2	1	N	A. Introduction to Biotechnology	Notes:
<u> </u>		1	11	1. Summarize the importance of biotechnology to agriculture (A001)	Titles.
				Other:	
2	1	1	NI	D. Laguagia Distanta de acc	Noton
3	2	1	N	B. Issues in Biotechnology 1. Explain the major issues associated with	Notes:
				agricultural biotechnology (B001)	
				2. Identify government agencies involved in	
				biotechnology (B002)	
				3. Identify procedures involved in obtaining a patent	
				for a biotechnology product (B003)	
				Other:	
3	2	1	N	C. Basic Laboratory Skills	Notes:
3	L	1	11	1. Describe the steps in the scientific method (C001)	ivotes:
				2. Demonstrate the proper use of laboratory	
				equipment and techniques (C002)	
				3. Explain why safety practices should be followed in	
				the laboratory (C003)	
				Other:	

3	2	1	N	D. Foundations of Genetic Engineering	Notes:
				1. Identify the parts of a cell, including DNA, and their functions (D001)	
				2. Explain how cells reproduce (D002)	
				3. Describe the processes of genetic modification (D003)	
				Other:	

Biotechnology: Applications in Agriculture

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3	2	1	N	E. Animal Technologies	Notes:
				1. Describe the process of artificial insemination (E001)	
				2. Describe the process of embryo transfer (E002)	
				1 , , , ,	
				3. Identify other applications of biotechnology in	
				animals (E003) 4. Summarize the impact of biotechnology on animal	
				agriculture (E004)	
				Other:	
	1				
3	2	1	N	F. Plant Technologies	Notes:
				1. Describe traditional plant breeding processes (F001)	
				2. Explain the process of tissue culture (F002)	
				3. Describe current applications of biotechnology in	
				plants (F003) 4. Identify emerging applications of biotechnology in	
				plants (F004)	
				5. Summarize the impact of biotechnology on plant agriculture (F005)	
				Other:	
3	2	1	N	Leadership & Personal Development for	Notes:
				Advanced Students (Leadership Duty C)	
				1. Develop a resume and complete a job application (C001)	
				2. Develop a plan for finding a job (C002)	
				3. Describe how to apply and interview for a job (C003)	
				4. Describe the characteristics needed to develop	
				desirable personal and social skills (C004)	
				5. Describe the importance and process of developing	
				better human relationships (C005)	
				Other:	
	I -				
3	2	1	N	Using the Missouri Farm Business Record Book (SAE Duty D)	Notes:
				1. Describe the two types of accounting methods	
				(D001)	
				2. Complete the forms needed to open the Missouri	
				Farm Business Record Book (D002)	
				3. Develop a projected cash flow (D003)	
				4. Record receipts and expenditures in the Missouri	
		_		Farm Business Record Book (D004)	
				5. Complete additional records in the Missouri Farm Business Record Book (D005)	
				6. Complete the forms necessary to summarize the	
				Missouri Farm Business Record Book (D006)	
				7. Analyze the farm business using the Missouri Farm	
-				Business Record Book (D007) Other:	
1	l	l	1	Outer.	<u> </u>